

Figure 1A

Figure 1B

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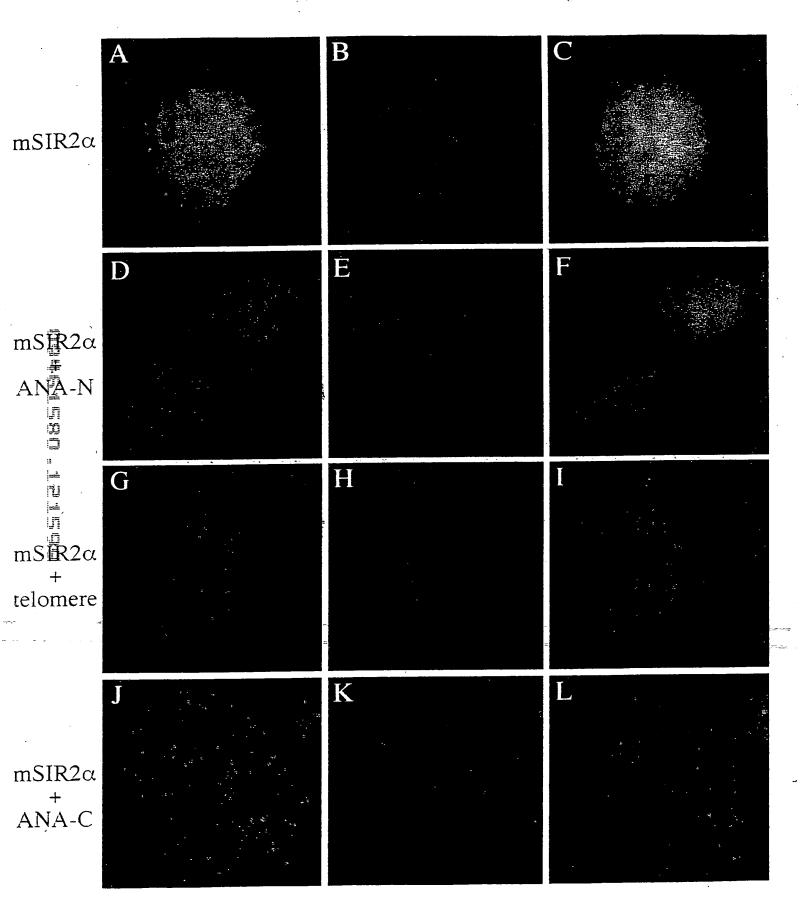


Figure 3

Figure 4D

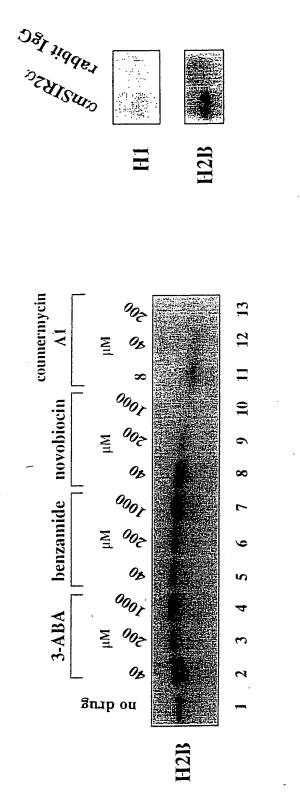


Figure 4F

Figure 4G

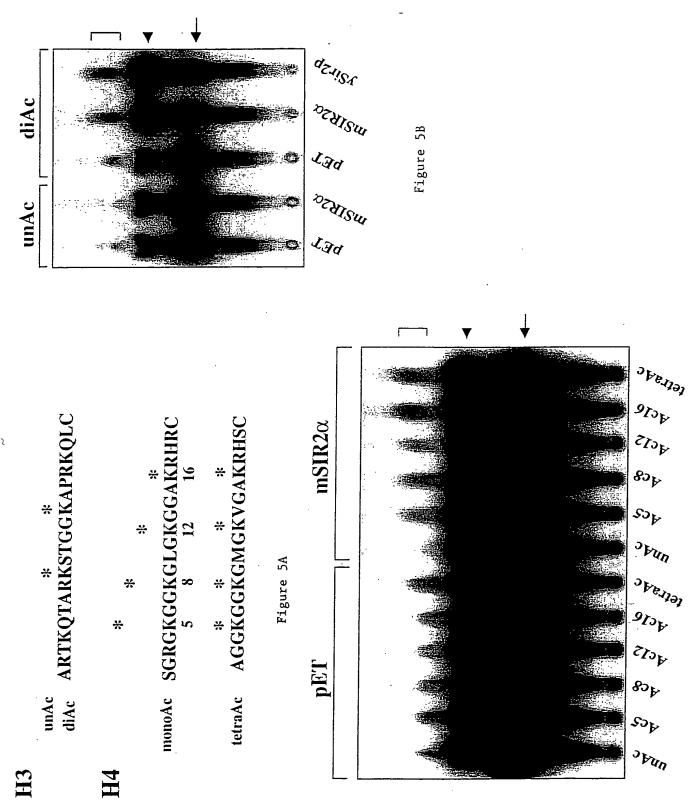


Figure 5C

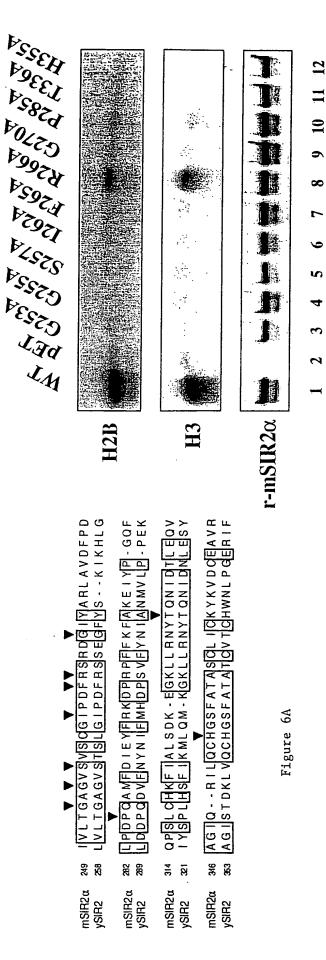


Figure 6B

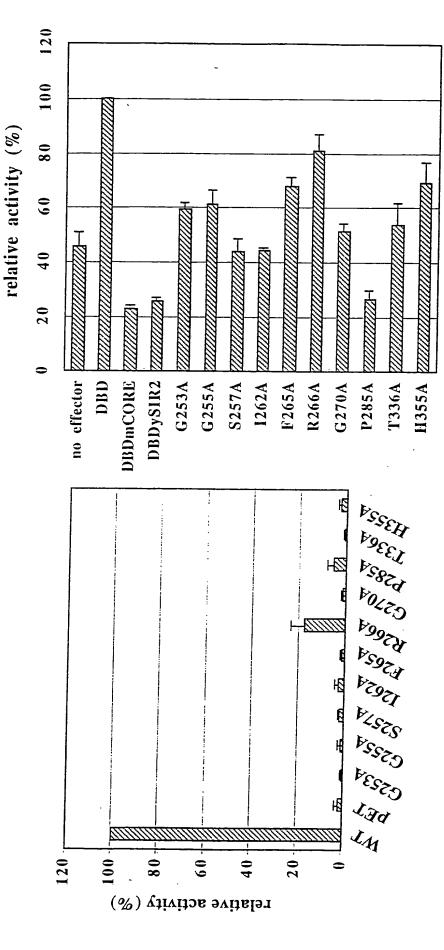


Figure 6C

Figure 6D

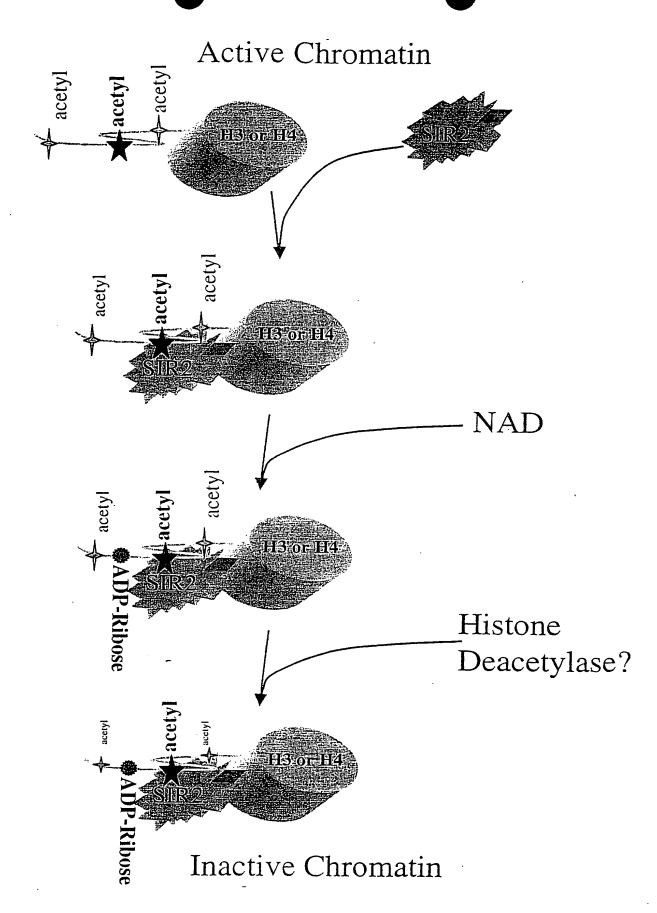
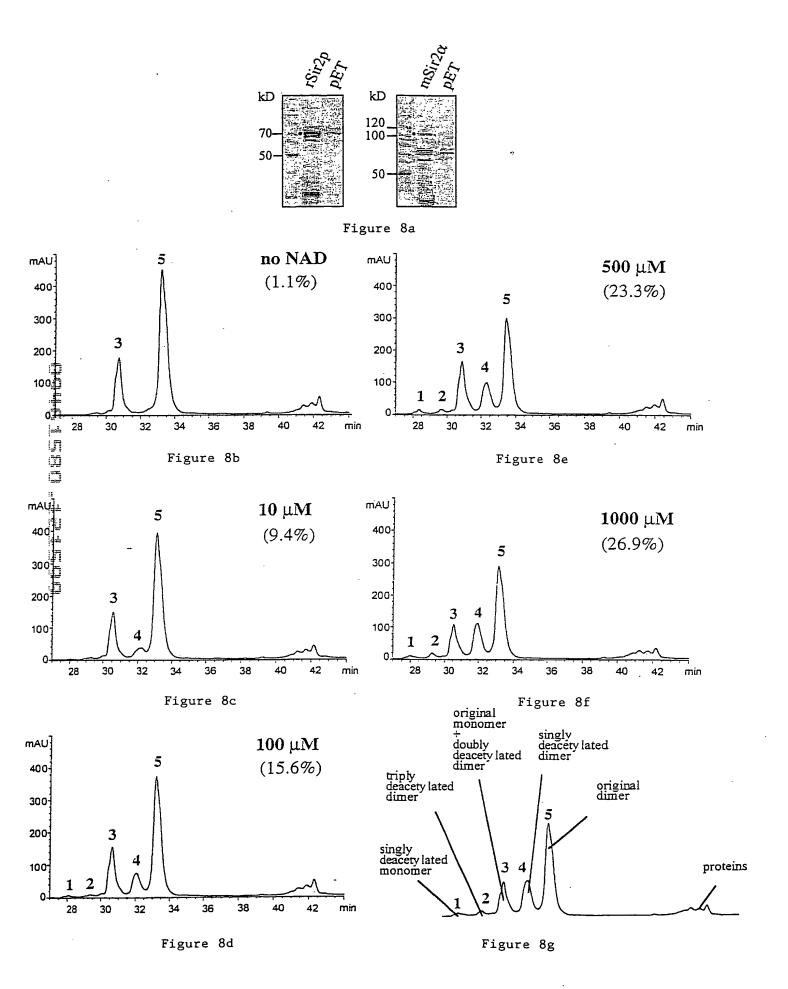


Figure 7



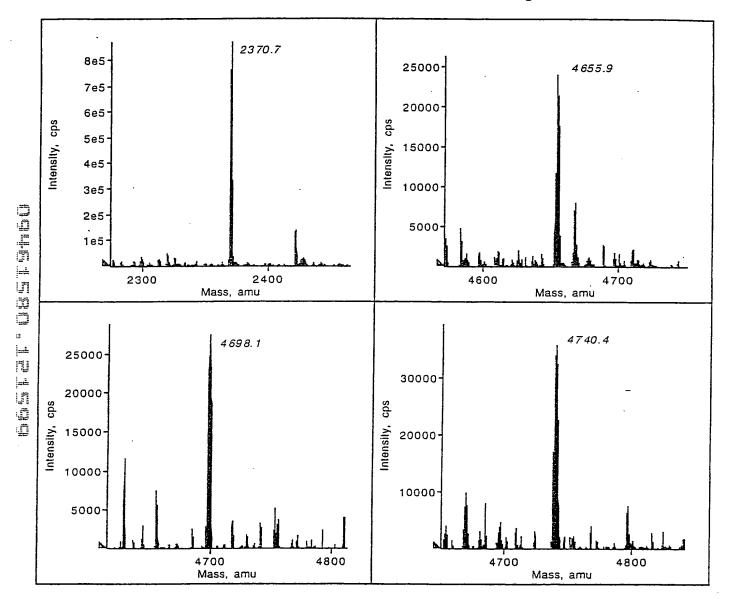
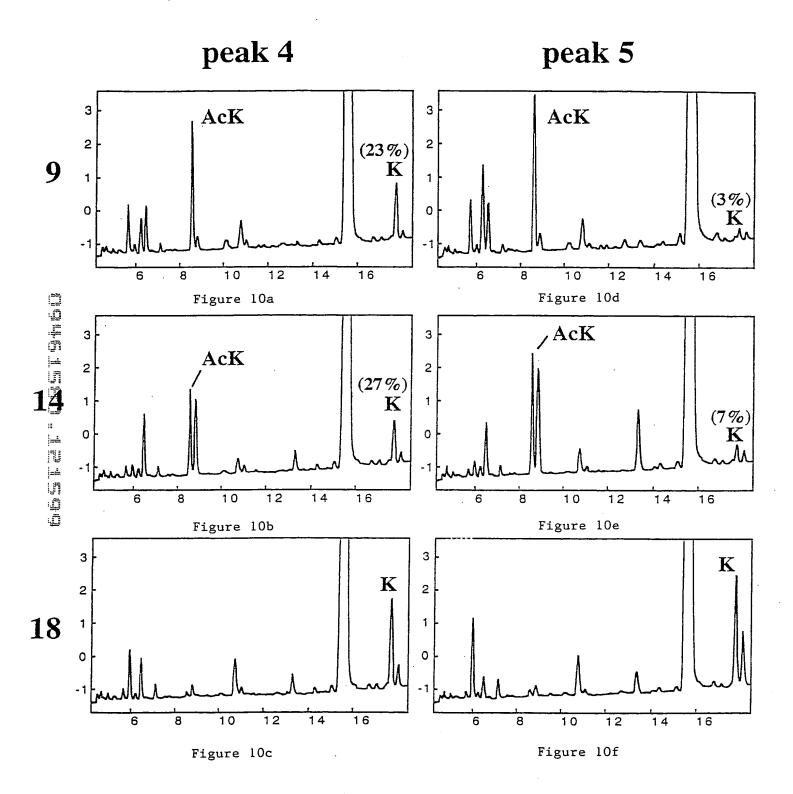
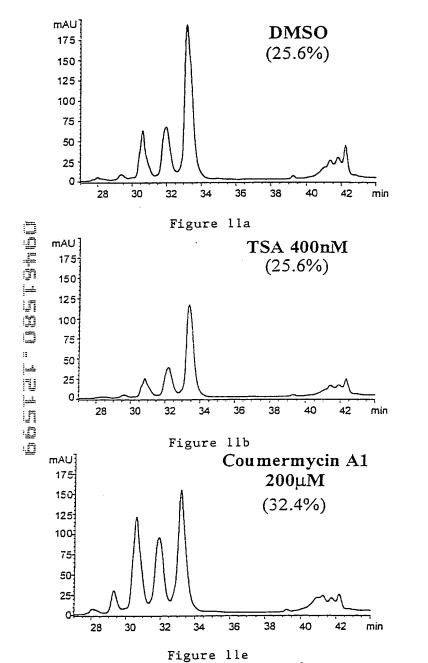


Figure 9c

Figure 9d





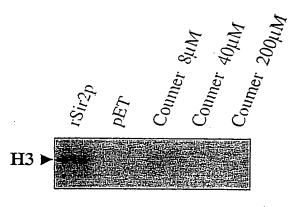


Figure 11c

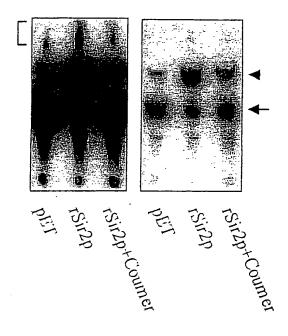


Figure 11d

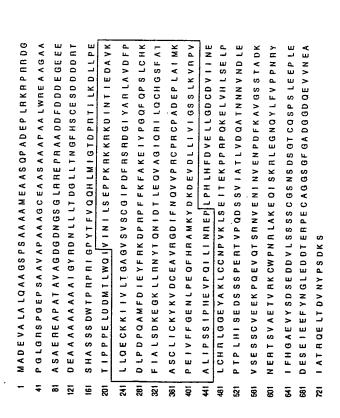


Figure 12a

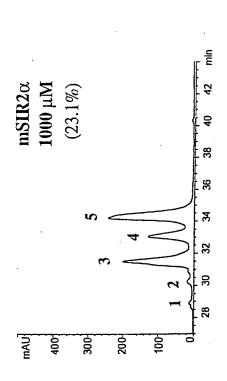


Figure 12c

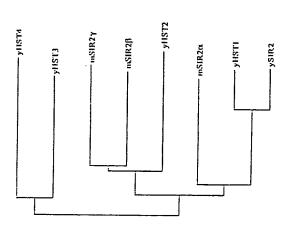


Figure 12b

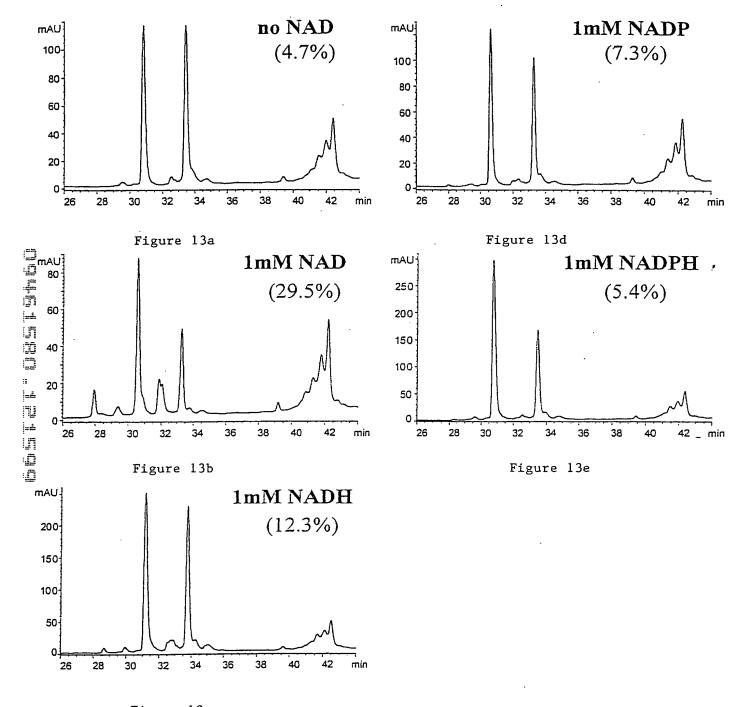


Figure 13c

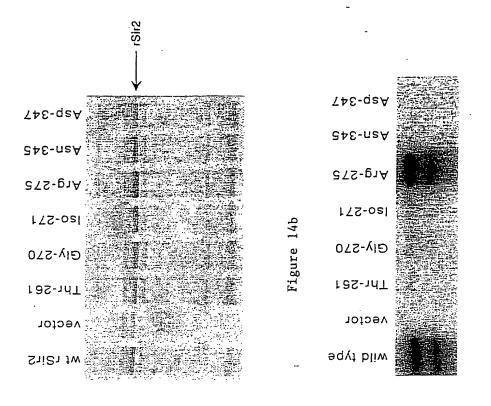
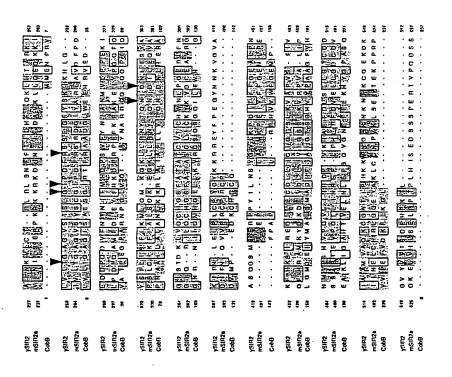
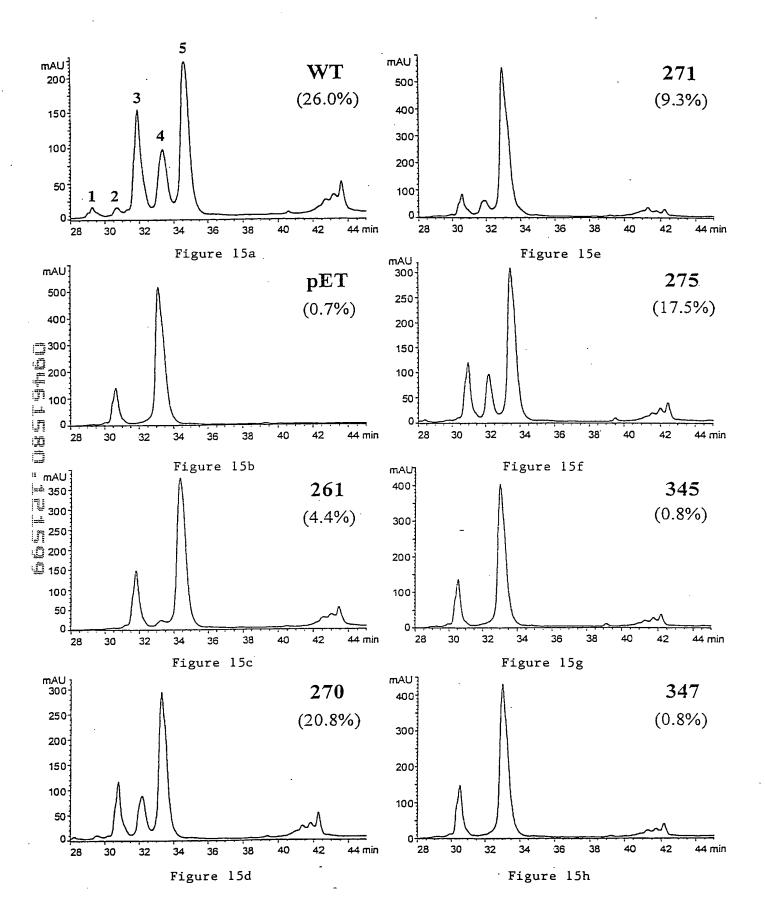
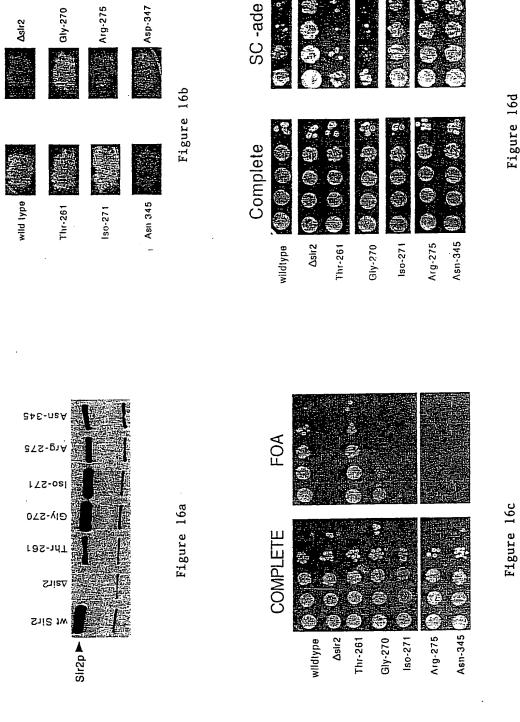


Figure 140



Trure 14





Arg-275

Gly-270

Astr2

Asp-347

Figure 16d

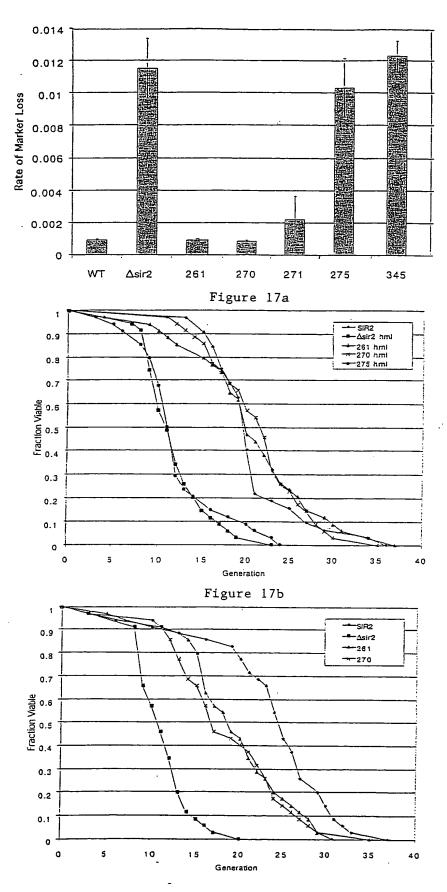


Figure 17c

100% 2.7% - - - 1.15% 100% 100% + + + 0.09% 4% 17% + + + 0.09% 7% 80% + + + 0.08% 8% 36% + - + 0.22% 100% 37% - - - 1.03% 0% 3% - - - 1.22% 0% 3% - ND ND	Mutant	Activity (% of wt)	Deacetylase Activity (% of wt)	HM Silencing	Telomere Silencing	rDNA Silencing	rDNA Recombi- nation	Mean Life Span (HML+)
100% + + + + 0.09% 4% 17% + + + 0.09% 7% 80% + +/- + 0.08% 8% 36% + +/- + 0.08% 100% 67% + - +/- 0.22% 0% 3% - - - 1.03% 0% 3% - - - 1.22% 0% 3% - - - 1.22%		%0	2.7%	•	1	ı	1.15%	11.4
4% 17% + + + 0.09% 7% 80% + +/- + 0.08% 8% 36% + - +/- 0.22% 100% 67% - - +/- 0.22% 0% 3% - - 1.03% 0% 3% - - 1.22% 0% 3% - ND ND	wildtype	100%	100%	+	+	+	0.09%	24.4
80% + +/- + 0.08% 36% + +/- 0.22% 67% 1.03% 3% 1.22% 3% 1.22% 3% 1.22%	Thr-261	4%	17%	+	+	+	0.09%	19.8
8% 36% + - +/- 0.22% 100% 67% 1.03% 0% 3% 1.22% 0% 3% 1.22% 0% 3% ND ND ND	270	7%	80%	+	-/+	+	0.08%	18.9
100% 67% 1.03% 0% 0% 3% - 1.22% 1.22% 0% 3% - ND ND ND ND	173	8%	36%	+	,	-/+	0.22%	ND
0% 3% 1.22% 0% 0 ND ND ND	275	100%	9/2/9	,	ı	,	1.03%	ND
0% 3% - ND ND ND	345	%0	3%	t	1	ı	1.22%	QN
	347	%0	3%	•	ND	ND	ND	ND

Figure 18

ySIR2 yHST1 yHST2 yHST3 yHST4 mSIR2alpha mSIR2beta mSIR2g AI465098 AI465820 AI466061	257 203 27 55 95 263 79 1 48 67 59	- SEGEMSKIRH 286 VETGAG STSLEGUPDERS - SEGEMSKIRH 232 VEMWEAG STSLEGUPDERS - SEGEMSKIRH 232 VEMWEAG STSLEGUPDERS - SEGEMSKIRH 232 PETGEM H NL A R 57 ACCUPACION SEGEMS - SEGEMS - SEGEMS 126 MVVVS GAG SVSVS GGLEDERS - REGUMA REA V D F 294 VEH GAG STSAG BD FRS - REGUM NL EK 109 VVEH GAG STASG PD FRS - PH GVWFMEER 77 EVW GAG STESG PD FRS - PH GVWFMEER 97 ACCUPACION SEGEMENTERS - AGG Y WRKWQ A 88
ySIR2 yHST1 yHST2 yHST3 yHST4 mSIR2alpha mSIR2beta mSIR2g AI465098 AI465061	287 233 58 87 127 295 110 11 78 98	
ySIR2 yHST1 yHST2 yHST3 yHST4 mSIR2alpha mSIR2beta mSIR2g A1465098 A1465820 A1466061	315 261 86 120 155 323 138 39 91 115	N
ySIR2 yHST1 yHST2 yHST3 yHST4 mSIR2alpha mSIR2beta mSIR2g AI465098 AI465820 AI466061	346 292 117 153 186 354 169 70 116 0	D N E S Y A G S D

Figure 19

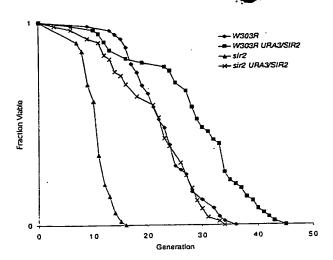


Figure 20

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910 920 930 940 950 CTCAAGCCATGTTTGATATTGAGTATTTT AAAGACCCAAGACCATTCTTCAAGTTTG K D P R P F F K F A CAAAGGAAATATATCCCGGACAGTTCCAGCCGTCTCTGTGTCACAAATTCATAGCTTTGT K E I Y P G Q F Q P S L C H K F I A L S CAGATAAGGAAGGAAAACTACTTCGAAATTATACTCAAAATATAGATACCTTGGAGCAGG D K E G K L L R N Y T Q N I D T L E Q V TTGCAGGAATCCAAAGGATCCTTCAGTGTCATGGTTCCTTTGCAACAGCATCTTGCCTGA AGIQRILQCHGSFATASCLI TTTGTAAATACAAAGTTGATTGTGAAGCTGTTCGTGGAGACATTTTTAATCAGGTAGTTC C K Y K V D C E A V R G D I F N Q V V P 1240 1250 CTCGGTGCCCTAGGTGCCCAGCTGATGAGCCACTTGCCATCATGAAGCCAGAGATTGTCT RCPRCPADEPLAIMKPEIVF 1300 1310 TCTTTGGTGAAAACTTACCAGAACAGTTTCATAGAGCCATGAAGTATGACAAAGATGAAG FGENLPEQFHRAMKYDKDEV ₽ 1360 1370 Tigacctcctcattgttattggatcttctctgaaagtgagaccagtagcactaattccaa ID L L I V I G S S L K V R P V A L I P S IJ GHICTATACCCCATGAAGTGCCTCAAATATTAATAAATAGGGAACCTTTGCCTCATCTAC SIPHEVPQILINREPLPHLH ATTITIGATGTAGAGCTCCTTGGAGACTGCGATGTTATAATTAATGAGTTGTCATAGGC UF D V E L L G D C D V I I N E L C H R L TAGGTGGTGAATATGCCAAACTTTGTTGTAACCCTGTAAAGCTTTCAGAAATTACTGAAA EG G E Y A K L C C N P V K L S E I T E K AACCTCCACGCCCACAAAAGGAATTGGTTCATTTATCAGAGTTGCCACCAACACCTCTTC PPRPQKELVHLSELPPTPLH ATATTTCGGAAGACTCAAGTTCACCTGAAAGAACTGTACCACAAGACTCTTCTGTGATTG I S E D S S S P E R T V P Q D S S V I A CTACACTTGTAGACCAAGCAACAACAACAATGTTAATGATTTAGAAGTATCTGAATCAA TLVDQATNNNVNDLEVSESS **GTTGTGTGGAAGAAAACCACAAGAAGTACAGACTAGTAGGAATGTTGAGAACATTAATG** CVEEKPQEVQTSRNVENINV TGGAAAATCCAGATTTTAAGGCTGTTGGTTCCAGTACTGCAGACAAAAATGAAAGAACTT ENPDFKAVGSSTADKNERTS CAGTTGCAGAAACAGTGAGAAAATGCTGGCCTAATAGACTTGCAAAGGAGCAGATTAGTA V A E T V R K C W P N R L A K E Q I S K

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GTGAC	AGT	GGC	'ACA'	I'GC	CAG	AGT	CCA	AGT	TTA	GAA	GAA	CCC	TIG	GAA	GATY	GAA	AGI	GAA	A_
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